FIG. 1

PC

TV/VR

GC

ANT

LAN

11	12	13	14	15	22	23
CPU	ROM	RAM	DISK	MemCard	NCU	DTU

CB

DB

AB

KB	CR	DBUF	CRTC	CRT	CG
16	17	18	19	20	21

INFORMATION PROCESSING APPARATUS

FIG. 2

2-a

2-b

2-c

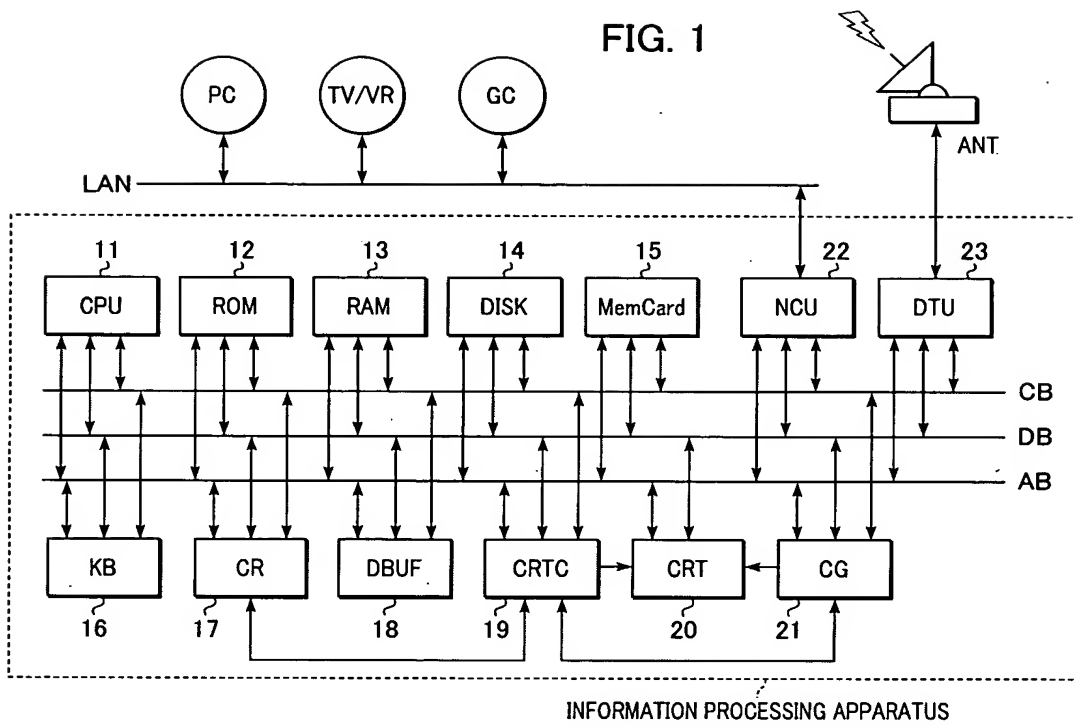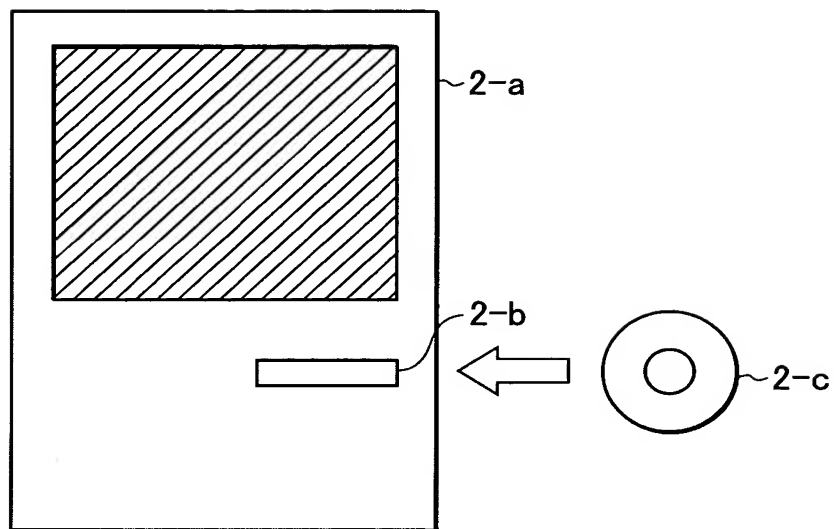# FIG. 3

```
3-a :  <Metadata>
3-b :      <Segment StartTime="00 : 02 : 12", EndTime="00 : 04 : 34">
3-c :          <DominantColor>
3-d :              <Metameta>
3-e :                  <Operation name="ColorChange", Reliability="30%"/>
3-f :                  <Operation name="VideoEdit", Reliability="0%"/>
3-g :              </Metameta>
3-h :              <RGB R=#20, G=#30, B=#40/>
3-i :          </DominantColor>
3-j :          <Dialog>
3-k :              <Metameta>
3-l :                  <Operation name="AudioChange", Reliability="0%"/>
3-m :              </Metameta>
3-n :              <Element Voice="Hello"/>
3-o :          </Dialog>
3-p :          <Semantics>
3-q :              <Metameta>
3-r :                  <Operation name="*", Reliability="100%"/>
3-s :              </Metameta>
3-t :              <agent>
3-u :                  <person name="Suzuki Ichiro"/>
3-v :              </agent>
3-w :          </Semantics>
3-x :      </Segment>
3-y :  </Metadata>
```
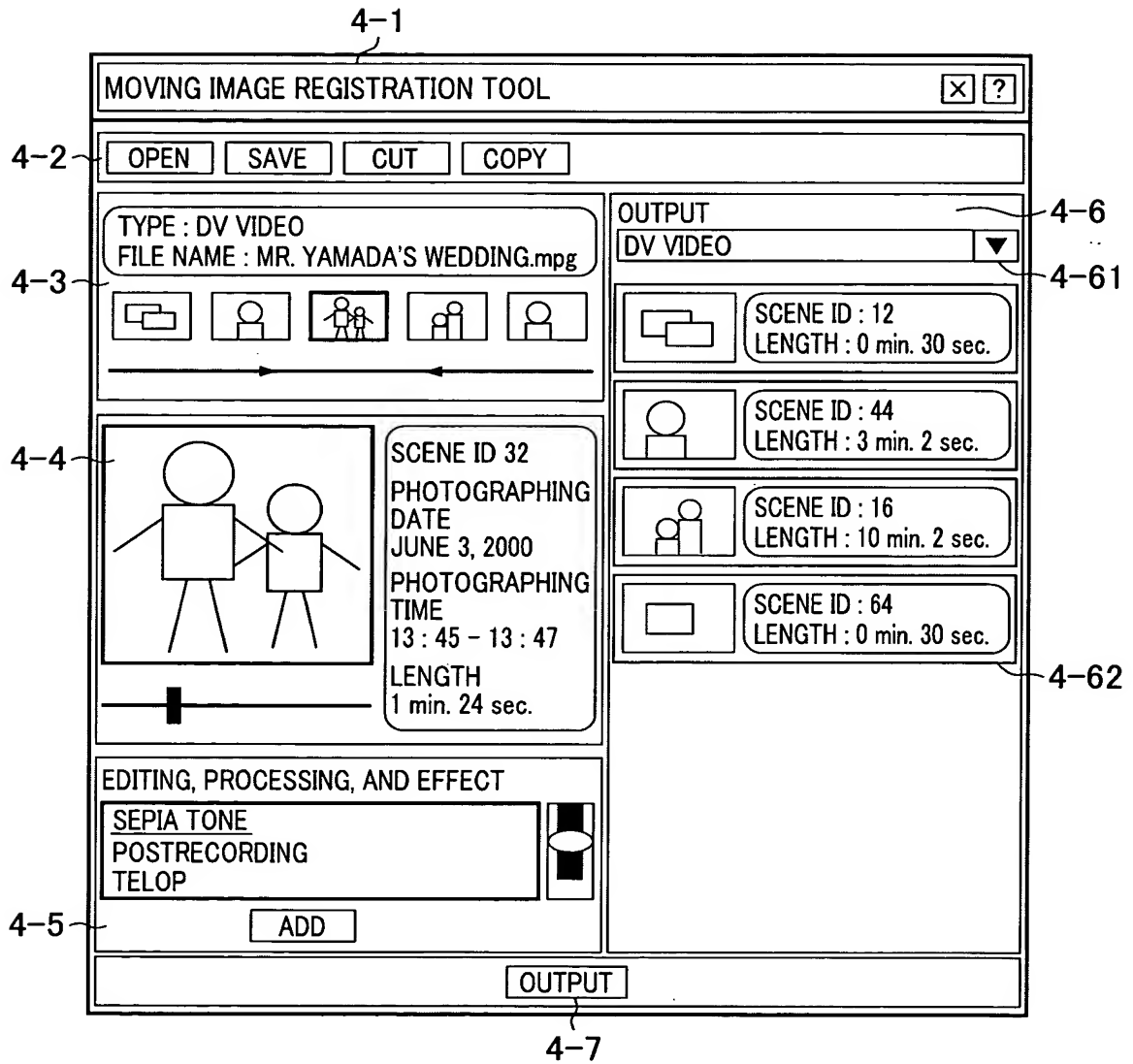
FIG. 4

4-1

| MOVING IMAGE REGISTRATION TOOL | ☒ ? |

4-2 — | OPEN | SAVE | CUT | COPY |

TYPE : DV VIDEO
FILE NAME : MR. YAMADA'S WEDDING.mpg

4-3 —

OUTPUT — 4-6
DV VIDEO ▼ — 4-61

SCENE ID : 12
LENGTH : 0 min. 30 sec.

4-4 —

SCENE ID 32

PHOTOGRAPHING DATE
JUNE 3, 2000

PHOTOGRAPHING TIME
13 : 45 – 13 : 47

LENGTH
1 min. 24 sec.

SCENE ID : 44
LENGTH : 3 min. 2 sec.

SCENE ID : 16
LENGTH : 10 min. 2 sec.

SCENE ID : 64
LENGTH : 0 min. 30 sec.

— 4-62

EDITING, PROCESSING, AND EFFECT

SEPIA TONE
POSTRECORDING
TELOP

4-5 — | ADD |

| OUTPUT |

4-7

FIG. 5

S5-1 — (START TO EDIT AND PROCESS METADATA)

S5-2 — ⟨ PREPARE TO USE INFORMATION ABOUT EDITING AND PROCESSING AND THE LIKE ⟩

S5-3 — | RETRIEVE METADATA PROVIDED TO SEGMENT OF CONTENT TO BE EDITED AND PROCESSED |

S5-4 — ⟨ HOW MUCH METADATA IS RETRIEVED ? ⟩ → METADATA = 0

METADATA > 0

S5-5 — | CALCULATE META-METADATA FOR RETRIEVED METADATA, AND DETERMINE UNUSABLE METADATA DUE TO EDITING AND PROCESSING NOT TO BE COPIED |

S5-6 — | DETERMINE METADATA NOT PROVIDED TO EDITED AND PROCESSED SEGMENT OF CONTENT NOT TO BE COPIED |

S5-7 — | OUTPUT, TOGETHER WITH VIDEO DATA, ONLY METADATA NOT DETERMINED NOT TO BE COPIED |
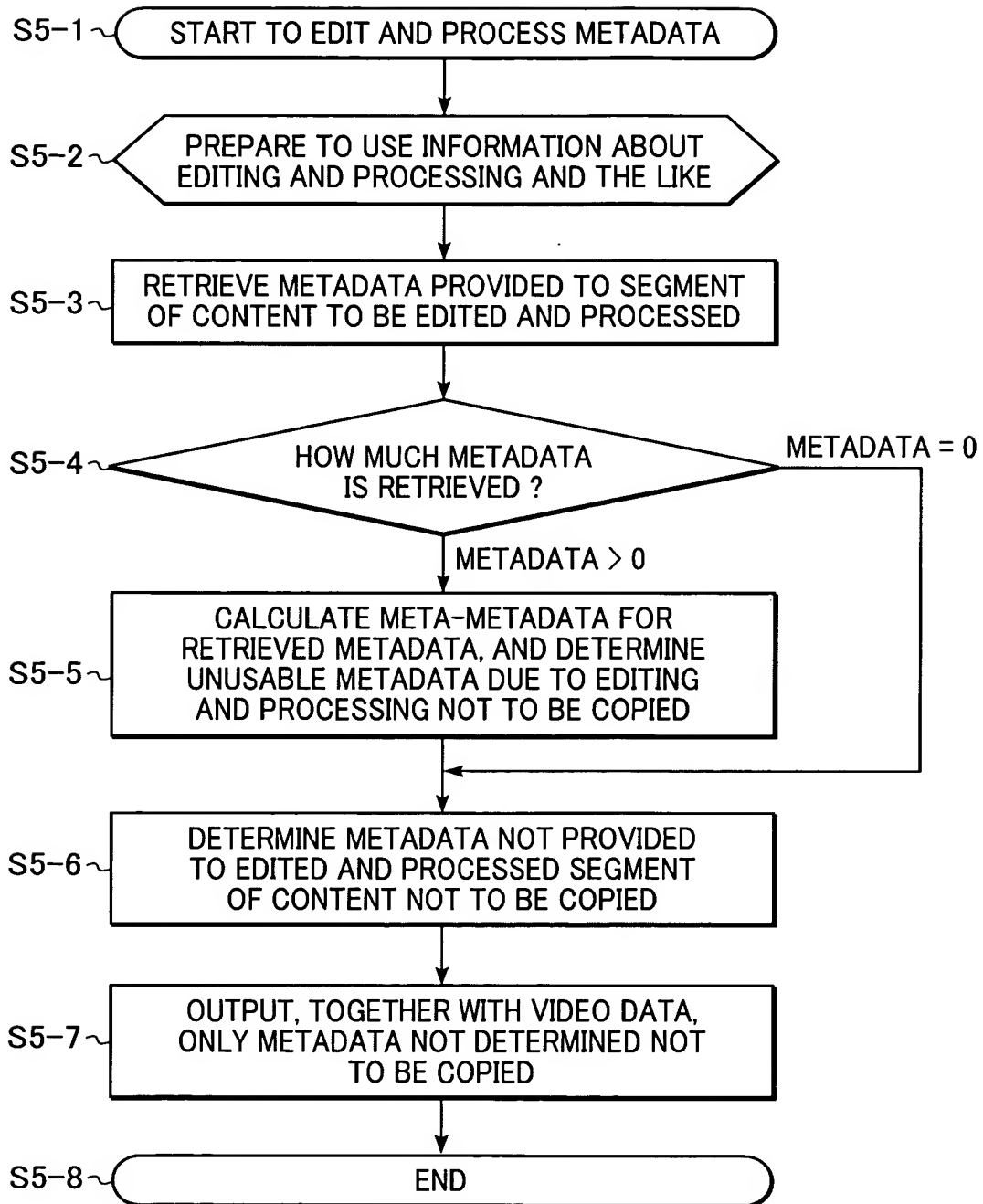
S5-8 — (END)

FIG. 6

NAME OF EDITING AND EFFECT	METADATA OF DOMINANT COLOR (DominantColor)	METADATA OF DIALOG (Dialog)	METADATA OF PHOTOGRAPHED OBJECT (Semantics)
SEPIA PROCESSING	REDUCE (KEEP)	SAME (KEEP)	SAME (KEEP)
POST-RECORDING PROCESSING	SAME (KEEP)	UNRELIABLE (DO NOT KEEP)	SAME (KEEP)

FIG. 7

```
7-a : <Metadata>
7-b :     <Segment StartTime="00 : 02 : 12", EndTime="00 : 04 : 34">
7-c :         <DominantColor>
7-d :             <Metameta>
7-e :                 <OperationReliability URL="http://www.foo.bar/DC.xml"/>
7-f :             </Metameta>
7-g :             <RGB R=#20, G=#30, B=#40/>
7-h :         </DominantColor>
7-i :         <Dialog>
7-j :             <Metameta>
7-k :                 <OperationReliability URL="http://www.foo.bar/DL.xml"/>
7-l :             </Metameta>
7-m :             <Element Voice="Hello"/>
7-n :         </Dialog>
7-o :         <Semantics>
7-p :             <Metameta>
7-q :                 <OperationReliability URL="http://www.foo.bar/SM.xml"/>
7-r :             </Metameta>
7-s :             <agent>
7-t :                 <person name="Suzuki Ichiro"/>
7-u :             </agent>
7-v :         </Semantics>
7-w :     </Segment>
7-x : </Metadata>
```

FIG. 8

```
4-a : <Metadata>
4-b :        <Segment StartTime="00 : 02 : 12", Endtime="00 : 04 : 34">
4-c :              <DominantColor>
4-d :                   <Metameta>
4-e :                        <Operation name="ColorChange", Reliability="30%"/>
4-f :                        <Operation name="VideoEdit",Reliability="0%"/>
4-g :                        <OperationRecord name="ColorChange"/>
4-h :                   </Metameta>
4-i :                   <RGB R=#20, G=#30, B=#40/>
4-j :              </DominantColor>
4-k :              <Dialog>
4-l :                   <Metameta>
4-m :                        <Operation name="AudioChange", Reliability="0%"/>
4-n :                        <OperationRecord name="AudioChange"/>
4-o :                   </Metameta>
4-p :                   <Element Voice="Hello"/>
4-q :              </Dialog>
4-r :              <Semantics>
4-s :                   <Metameta>
4-t :                        <Operation name="*", Reliability="100%"/>
4-u :                   </Metameta>
4-v :                   <agent name="Suzuki Ichiro"/>
4-w :              </Semantics>
4-x :        </Segment>
4-y : </Metadata>
```

FIG. 9

S9-1 — (START TO EDIT AND PROCESS METADATA)

S9-2 — PREPARE TO USE INFORMATION ABOUT
EDITING AND PROCESSING AND THE LIKE

S9-3 — RETRIEVE METADATA PROVIDED TO SEGMENT
OF CONTENT TO BE EDITED AND PROCESSED

S9-4 — HOW MUCH METADATA
IS RETRIEVED ?

METADATA = 0

METADATA > 0

S9-5 — PROVIDE INFORMATION ABOUT PERFORMED
EDITING AND PROCESSING TO META-
METADATA FOR RETRIEVED METADATA

S9-6 — DETERMINE METADATA NOT PROVIDED
TO EDITED AND PROCESSED SEGMENT
OF CONTENT NOT TO BE COPIED

S9-7 — OUTPUT, TOGETHER WITH VIDEO DATA,
ONLY METADATA NOT DETERMINED NOT
TO BE COPIED

S9-8 — (END)

FIG. 10

S6-1 (START TO RETRIEVE METADATA)

S6-2 ⟨ COLLECT INFORMATION NECESSARY FOR RETRIEVING METADATA ⟩

S6-3 | RETRIEVE METADATA IN ACCORDANCE WITH RETRIEVAL CONDITIONS |

S6-4 ⟨ HOW MUCH METADATA IS RETRIEVED ? ⟩ — METADATA = 0

METADATA > 0

S6-5 | REFER TO META-METADATA, AND EXCLUDE METADATA DETERMINED TO BE UNUSABLE FROM RETRIEVAL RESULTS IN ACCORDANCE WITH CALCULATION OF RELIABILITY CHANGED DUE TO EDITING AND PROCESSING |

S6-6 (END)